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Mining Home Video for Photos

Qian Lin, Tong Zhang, Mei Chen, Yining Deng, Pere Obrador

Imaging Systems Laboratory

HP Laboratories Palo Alto

HPL-2004-80

April 29, 2004*

home video
analysis, video to
photo, video
printing, camera
motion analysis,
intelligent
keyframe
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More and more home videos have been generated with the ever growing popularity of digital cameras and camcorders. In many cases of home video, a photo, whether capturing a moment or a scene within the video, provides a complementary representation to the video. In this paper, a complete solution of video to photo is presented. The intent of the user is first derived by analyzing video motions. Then, photos are produced accordingly from the video. They can be keyframes at video highlights, panorama of the scene, or high-resolution frames. Methods and results of camera motion mining, intelligent keyframe extraction, video frame stitching and super-resolution enhancement are described.

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Content-Based Search of Video Using color, Texture, and Motion

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Abstract

We present an implementation of a system for content-based search and retrieval of video based on low-level visual features. Currently the system consists of three parts, automatic video partition, feature extraction, video search and retrieval. Three primary features, color; texture and motion are used for indexing. They are represented by color histogram, Gabor texture features, and motion histogram. Most of the processing is done directly in the MPEG compressed domain. Testing on sports and movie data-bases have shown good retrieval performance.

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